

GENERIC · CHASSIS

C004D

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C004D

Brake System Pressure Slow Response

C004D indicates that the anti-lock brake system (ABS) control module has detected that the brake system pressure signal is responding too slowly during a self-test or normal operation. The module compares the pressure sensor output to expected values and flags the code when the signal changes more slowly than the calibrated threshold.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Chassis	Generic (all makes)	Medium	Intermediate	Brakes, steering and suspension

Symptoms you may notice

- ABS warning light illuminated on the dashboard
- Traction control or stability control warning light may also be on
- Often no symptoms besides the warning light
- Reduced or disabled ABS function during hard braking
- Brake pedal may feel slightly different or require more effort in some cases
- Intermittent warning light that comes and goes with temperature or driving conditions

Common causes, most likely first

- 1 Contaminated or degraded brake fluid affecting pressure sensor response
- 2 Faulty brake pressure sensor or sensor wiring/connector issues
- 3 Air trapped in the hydraulic system causing slow pressure build-up
- 4 Sticking or restricted brake hydraulic component (e.g., ABS pump, proportioning valve)
- 5 Corroded or damaged ABS module connector pins
- 6 Internal fault in the ABS control module
- 7 Low brake fluid level or a small leak in the hydraulic system

How to diagnose and fix it

- 1 Check brake fluid level and condition; top off or replace fluid if contaminated
- 2 Inspect brake pressure sensor wiring and connectors for corrosion, damage, or loose pins
- 3 Perform a brake system bleed to remove air and ensure proper pressure response
- 4 Use a scan tool to monitor live brake pressure sensor data and compare to expected values
- 5 Test the brake pressure sensor with a multimeter or oscilloscope for slow response
- 6 Inspect hydraulic components (ABS pump, valves) for restrictions or sticking
- 7 If all else checks out, diagnose or replace the ABS control module as needed



Slow pressure response often misdiagnosed

- A slow response code is frequently caused by air in the hydraulic system rather than a failed sensor, so a proper bleed should be performed before replacing parts.
- Contaminated brake fluid can coat the pressure sensor and slow its response without setting a fluid quality code, so fluid condition is a critical check.
- The ABS module may set C004D due to a weak battery or charging system issue that causes low voltage during self-test, so always verify battery health first.
- Some vehicles require a scan tool to open ABS valves during bleeding; a manual bleed may leave air trapped and the code will return.
- A sticking ABS pump motor or valve can mimic a sensor fault, so live data during an ABS activation test is more revealing than static resistance checks.

Can I keep driving with C004D?

The vehicle remains drivable with normal braking in most cases, but ABS may be disabled, so avoid hard braking or emergency maneuvers until repaired. If the brake pedal feels abnormal or the fluid level is low, stop driving and seek professional service immediately.

Tools that help

- OBD-II scan tool with ABS capability
- Multimeter
- Brake bleeder kit
- Oscilloscope (optional for sensor testing)
- Wrench set and socket set
- Brake fluid tester

Reading C004D

C	Chassis: brakes, steering and suspension.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
0	Brakes, steering and suspension.
4D	The exact fault within that area.

Often seen with

C0040 Left Rear Wheel Speed Sensor Circuit · **C0045** Left Rear Wheel Speed Sensor Circuit Malfunction · **C0050** Right Rear Wheel Speed Sensor Circuit Malfunction · **C0110** ABS Pump Motor Circuit Malfunction · **C0121** Valve Relay Circuit Malfunction



See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c004d/>

